Advertiſements of Books Printed.

AN *Ephemerides* of the Cœleſtial motions for ten years to come; Calculated according to Art, by *John Gadbury*, Philomathematicus; Printed for, and ſold by the Company of *Stationers*.

The *Fiery Trigon Revived*: by the five Oppoſitions of *Saturn* and *Jupiter*, *Anno* 1672. and 1673. with their ſignifications as well to the *Dutch* as other Nations, Aſtrologically diſcourſed by *T. T.* and ———

The *Aſtrological Seaman*: or experienced Directions for Merchants, Marriners, and all others that Trade or Voyage to Sea; aſſiſting them in the proſperous beginning of Sea Voyages, Lanching of Ships, weighing Anchor, *&c.* together with like Inſtructions, how (by Gods bleſſing) to avoid all Shipwracks, and other ſad diſaſters, uſually happening in the Ocean; By *John Gadbury*, φιλομαθηματικος. ——— Both ſold by *Joſiah Robinſon*, at his Shop at *Lincols-Inn* Gate, next *Chancery* Lane.

The *Jamaica Almanack*, with the *Geneſis* or *Nativity* of the ſaid noble Iſland, Calculated for 180. years, by *J. G.* and ſold by the Company of *Stationers*.

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DOVE
SPECULUM ANNI
à partu Virginis
M. DC. LXXIII.

OR

AN ALMANACK
For the Year of our
LORD GOD
1673.

Being the first after the Leap-year, and from the Worlds Creation, 5677.

Calculated properly for the famous University and Town of *Cambridge*, where the Pole is elevated above the Horizon 52 degr. and 17 min. But may indifferently serve for any other place within this Kingdom.

Non nobis solum nati sumus.

CAMBRIDGE,
Printed by *John Hayes*, Printer to the University, 1673.

The Golden Number is	2
The Cycle of the Sun	2
The Epact	22
The Dominical Letter	G
Shrove-ſunday	February 9
Eaſter-day	March 30
Aſcenſion-day	May 8
Whitſunday	May 18
Trinity-ſunday	May 25
Advent-ſunday	Novemb. 30

The Terms with their Returns this year

Hilary Term begins January 23, and ends February 12, and hath 4 returns, *viz.*	Octab, Hilar. Jan. 20 Quind. Hilar. Jan. 27 Craſt. Purif. Febr. 3 Octab. Purif. Febr. 10
Eaſter Term begins April 16 ends May 12, and hath 5 returns.	Quind. Paſch. Apr. 14 Tres Paſch. Apr. 21 Menſ. Paſch. Apr. 28 Quinq. Paſch. May 5 Craſt. Aſcen. May 9
Trinity Term begins May 30 ends June 18 and hath 4 returns.	Craſt. Trin. May 26 Octab. Trin. June 2 Quind. Trin. June 9 Tres Trin. Jun 16
Michaelmas Term begins October 23, ends November 28, and hath 6 returns.	Tres Mich. Octob. 20 Menſ. Mich. Octob. 27 Craſt. anim. Nov. 3 Craſt. Mart. Nov. 12 Octab. Mart. Nov. 18 Quind. Mart. Nov. 25

Note that the Exchequer openeth 8 days before any Term, except the Term of Trinity, in which it openeth but 4 days before.

Of

Of the Suns Entrance into the four Cardinal Signs.

The Sun enters *Aries* this year *March* the 9 at 30 min. past 10 of the Clock at night, at which time beginneth our Spring quarter.

Our summer quarter beginneth at the Suns entrance into *Cancer*, which will be this year the 11 of *June* 16 minutes after one in the morning.

The Autumnal quarter, when the Sun enters *Libra*, which will be the 12 of *September* 26 minutes past 4 afternoon

The Sun enters *Capricorn*, *December* 11 at 15 minutes past 4 in the morn. at which time beginneth the winter quart.

The Anatomy of mans body, as the parts are governed by the twelve Signs.

In the following Chronology the year begins *Jan.* 1.

A brief account of the moſt remarkable paſſages which have happened in England *ſince the year*, 1640.

1640 THe long Parliament began *Nov.* 3. The Earl of Strafford beheaded *May* 12 following.

1641 *May* 2 the Prince of Orange was married to the Lady Mary. The ſame year *Octob.* 23 the Rebellion in *Ireland* began.

1642 Sir J. Hotham denies the King entrance into *Hull*.
The Earl of Eſſex made general for the Parliam.
The King ſetteth up his Standard at *Nottingham*.
The battel at Edge-Hill *October* 23, where above 5000 were ſlain.
Brainford Fight *November* 13 and 14.

1643 The Lord Brook ſhot in the eye.
The Battel on Hopton-Heath, *March* 18
Cheapſide-Croſs demoliſhed, and an Act paſſed for an Aſſembly of Divines to ſettle Religion, and likewiſe a vote for a new Great Seal.
Sir William Waller routed by the Kings forces.
The firſt Battel at Newbury, *September* 20.
The Covenant (that Bond of iniquity) taken by the houſe of Commons, *September* 25.

1644 The Scotch-Army of 20000 Horſe and Foot entred *England*. Marſton-moor fight *July* 2, where above 7000 were ſlain.
This year came divers Ambaſſadours from *France*, *Holland* and *Spain*, to mediate between the King and Parliament.
Newbury ſecond Battel, *Octob.* 27.
3 Suns ſeen in *London*, *Novemb.* 19.

Sir

Sir Thomas Fairfax made General in the room of *Essex*.

1645 The Arch-Bishop of *Cant.* beheaded *Jan.* 10.
The Parliament vote that the clause for preservation of his Majesties person should be left out of Sir *T. Fairfax* his Commission, *March* 24.
Oxford closely besieged, *May* 22.
The fatal Battel at *Naseby*, *June* 14.
Carlisle after a long siege delivered to the Scots.
Bristol surrendred *September* 11. Routon-Heath Battel, *September* 24.
Basing House taken by storm, *October* 14.
Dartmouth stormed and taken, and Belvoire-Castle surrendred.
His Royal Majesty offered at this time to come to the Parliament, and advise with them for the good of the Nation upon reasonable conditions, but they would not consent to it.

1646 The Earl of *Essex* died *September* 14.
The treacherous Scots sold the King to the Parliament for 400000 pounds.

1647 His Majesty was brought prisoner to Holmby, *Feb.* 17.
The City declares against the Army, but upon the Armies approach they submit.

1648 The Parliament vote that no further addresses be made to the King, *January* 30.
Part of the Navy declare for the King, *May* 27.
Maidstone fight, *May* 31. The Welch-Army of 8400 routed by Col. *Horton*.
Duke Hamilton entred *England* with an Army for his Majesty. Colchester yielded, Sir Charles Lucas and Sir George Lisle shot to death, *August* 28.
The Treaty began in the Isle of Wight, *September* 18.
An Ordinance nominating divers persons to try

the King *December* 28, being tendred to the Lords was by them refuſed.

1649 The pretended High Court of Juſtice proclaimed *January* 9.

His Royal Majeſty moſt barbarouſly murdered, *January* 30.

1650 The Kings Statue erected in the Royal Exchange broken down by the Uſurpers, *Auguſt* 10.

A great fight at Dunbar in *Scotland*, *Septemb.* 3.

1651 King *Charles* II Crowned at Schoon in *Scotland*, *Jan.* 1.

The Scotch Army again enter *England*, *Aug.* 8.

Worceſter fight *Septemb.* 3. 3000 ſlain and 10000 taken priſoners.

1652 A great Sea-fight between the Engliſh and Dutch, wherein the Dutch were worſted.

1653 The Rump Parliament diſſolved by the Army, *April* 10.

A ſecand fight between the Engliſh and Dutch, *June* 2, 3.

A third fight *July* 29 and 30, wherein *Vantrump* was ſlain.

1654 Oliver the Tyrant ſummond a Parliament, *Sep.* 3. and diſſolved it again the 22 of *January* following, he was proclaimed Protectour *June* 26.

1656 The River of Thames ebbed and flowed twice in 3 hours, *October* 3.

1658 Dunkirk ſurrendred to the Engliſh, *June* 25.

Oliver died *September* 3, and the next day his ſon was proclaimed Protectour.

1659 White-hall and Somerſet-houſe voted to be ſold, *May* 16. Sir George Booth up in Cheſhire, *Aug.* 1.

1660 The Lord General Monk marcheth from *Scotland* to *London*.

The ſecluded Members reſtored, *February* 21.

Admiral *Montague* with the whole Navy ſubmit

to

to his Majesty, *May* 3. and the 8 his Majesty was proclaimed in *London*, the 25 he landed at *Dover*, and the 29 at White-hall.

General Monk created Duke of Albemarl, *July* 12

The Duke of Gloucester died, *September* 13

About this time many of the Regicides were executed.

The Queen-mother returned to White-hall, *November* 2.

1661 King *Charles* II Crowned at *Westmin. April* 23.

The Queen of *Bohemia* came to *London*, *May* 17.

1662 Queen *Katherine* landed at Portsmouth *May* 14, and the 23 of *Aug.* following she came to White-hall.

1664 The House of Commons vote his Majesty a supply of 2500000 pounds sterling.

3 Comets appeared in a short time.

1665 The great Plague in *London* began *Apr.* 25 whereof died 100000.

A great fight between the Eng. and Dutch *June* 3, wherein the Dutch were beaten.

The Parliament voted his Majesty a supply of 1250000 pounds, *October* 11.

1666 Another fight between the English and Dutch *June* 2, 3, 4. a third fight in *August* following.

The sad fire in *London* which burned within the walls 87 Parishes, and much building without, *September* 3, 4, 5, 6.

January hath xxxi days.

New moon the 8 day, 8 min. past 2 in the morning
First quarter the 16 day, 38 min. past 3 in the morn.
Full moon the 22 day, 11 min. past 1 after noon.
Last quarter the 29 day, 21 min. past 5 at night.

1	a	Circ. of Christ	Scorp.	10	21	15	Good weather
2	b	Oct. Steph.		22	22	16	at the begin-
3	c	Octab. John	Sagit.	4	23	18	ning of the
4	d	Octab. Innoc.		16	24	19	year.
5	e	2 sun. af. Chr.		28	25	20	
6	f	Epiphany	Capr.	9	26	21	
7	g	Initianus		23	27	22	Cold frosty
8	a	Lucian	Aquar.	3	28	24	weather
9	b	Marcelline		15	29	26	and Cloudy
10	c	Sun in Aqua.		27	♒	26	with snow
11	d	Hygin	Pisces	10	1	27	or rain fol-
12	e	1 aft. Epiph.		22	2	28	lowing.
13	f	Hilary bish.	Aries	5	3	29	
14	g	Felix		18	4	30	
15	a	Mauritius	Taur.	1	5	31	Somewhat
16	b	Marcellus		14	6	32	warmer.
17	c	Anthony		28	7	33	
18	d	Prisca	Gem.	12	8	34	High winds
19	e	2 after Epiph.		27	9	35	bringing snow
20	f	Octab. Hilar.	Canc.	12	10	36	or rain.
21	g	Agnes		27	11	37	
22	a	Vincent	Leo	12	12	38	
23	b	Term begin.		27	13	39	
24	c	Timothy b.	Virg.	12	14	40	
25	d	Con. of Paul		26	15	41	Pleasant now
26	e	Sepuagesima	Libr.	12	16	41	inclining to
27	f	Quind. Hilar.		23	17	42	frost.
28	g	Agnes 2	Scorp.	6	18	43	
29	a	Valerius		18	19	44	
30	b	K. Char. mar.	Sagit.	0	20	44	
31	c	Saturnine		12	21	45	

Janus comes in now (whom the Poets feign
The God of gates) and doth his charge maintain.
He having shut the old year from our view,
Lets in (what doth us better please) the new.

January 1673.

	Sun-rising.		Sun-setting.	
1	8	4	3	56
2	8	3	3	57
3	8	2	3	58
4	8	0	4	0
5	7	59	4	1
6	7	58	4	2
7	7	57	4	3
8	7	55	4	5
9	7	54	4	6
10	7	52	4	8
11	7	50	4	10
12	7	48	4	12
13	7	47	4	13
14	7	46	4	14
15	7	45	4	15
16	7	44	4	16
17	7	42	4	18
18	7	40	4	20
19	7	38	4	22
20	7	36	4	24
21	7	34	4	26
22	7	32	4	28
23	7	30	4	30
24	7	28	4	32
25	7	26	4	34
26	7	24	4	36
27	7	23	4	37
28	7	21	4	39
29	7	19	4	41
30	7	17	4	43
31	7	16	4	44

February hath xxviii days.

New moon the 6 day, 39 min. past 6 at night
First quarter the 14 day, 59 min. past 8 in the morning
Full Moon the 20 day, 7 minutes past midnight
Last quarter the 28 day, 12 min. past 11 before noon

M.D.	W.D.	Festival days with terms	Moons place.		Suns place.			Inclination of Air.
1	d	Bridget Fast	Sagit.	24	22	46		Very cold
2	e	Purif. of Mary	Capr.	6	23	46		weather
3	f	Craft. purif.		18	24	47		with a cloudy
4	g	Veronica	Aqua.	0	25	48		obscure sea-
5	a	Agatha		12	26	48		son, if not
6	b	Dozothy		24	27	49		much snow.
7	c	Angulus	Pisces	6	28	49		
8	d	Sun in Pisces		19	29	50		
9	e	Shrovesund.	Aries	2	0	♈	50	
10	f	Scholastica		15	1		51	Warmer
11	g	Shrove Tues.		28	2		52	weather, but
12	a	Ter. end A.w	Taur.	11	3		52	variable, and
13	b	Agabus		25	4		53	cloudy, with
14	c	Valentine	Gem.	8	5		54	rain or snow
15	d	Faustine		22	6		54	following.
16	e	Quadragesi.	Canc.	7	7		55	
17	f	Constant.		21	8		56	
18	g	Concordia	Leo	6	9		56	
19	a	Ember week		20	10		57	
20	b	Eucharius	Virg.	5	11		58	
21	c	69 Martyrs		20	12		58	
22	d	Cath. Pet.	Libra	4	13		59	Good spring-
23	e	Ordin. Sund.		18	14		59	ing weather
24	f	Matthias Ap.	Scorp.	1	15		59	about
25	g	Constance		14	16		0	this time.
26	a	Victorin		26	17		1	
27	b	Fortunatus	Sagit.	9	18		1	
28	c	Oswald bish.		21	19		2	

According to the Astronomical Tables there will not be any Eclipses visible in *England* this year.

Now *February* (various as the faſhion,
Hath been of late within our Engliſh Nation)
Doth with his often ſtorms of ſnow and rain,
Prepare the earth the ſpring to entertain.

February 1673.

	Sun-riſing.			Sun-ſetting.
1	7	14	4	46
2	7	12	4	48
3	7	10	4	50
4	7	8	4	52
5	7	6	4	54
6	7	4	4	56
7	7	2	4	58
8	7	0	5	0
9	6	58	5	2
10	6	56	5	4
11	6	54	5	6
12	6	52	5	8
13	6	50	5	10
14	6	48	5	12
15	6	46	5	14
16	6	44	5	16
17	6	42	5	18
18	6	40	5	20
19	6	38	5	22
20	6	36	5	24
21	6	34	5	26
22	6	32	5	28
23	6	30	5	30
24	6	28	5	32
25	6	26	5	34
26	6	24	5	36
27	6	22	5	38
28	6	20	5	40

March hath xxxi days.

New moon the 8 day, 13 min. past noon
First quarter the 15 day, 7 min. past 4 after noon
Full moon the 22 day, 39 min. past 11 before noon
Last quarter the 30 day, 13 min. past 6 in the morning

1	d	David bish.	Capr.	3	20	3		
2	e	3 sun. in Lent.		14	21	4		
3	f	Eutropius		26	22	5	Warm weather cherishing the spring but it holds not long.	
4	g	Adrian	Aquar.	8	23	6		
5	a	Eusebius		20	24	7		
6	b	Frederick	Pisces	2	25	8		
7	c	Perpetua		15	26	9		
8	d	Mauritan.		28	27	10		
9	e	4 sun. in Lent	Aries	11	28	11		
10	f	Sun in Aries		24	29	12		
11	g	Cuthbert	Taur.	8	0 ♈	13		
12	a	Gregory b.		22	1	14		
13	b	Ernestus	Gem.	5	2	15		
14	c	Candid. mar.		19	3	16	A probability of a cold and cloudy season, and it may be much snow or cold rain about this time with high winds.	
15	d	Longine	Canc.	3	4	17		
16	e	5 sun. in Lent		17	5	18		
17	f	Gertrude	Leo	2	6	19		
18	g	Edward K.		16	7	20		
19	a	Joseph.	Virg.	0	8	21		
20	b	Rupertus		14	9	22		
21	c	Benedict b.		28	10	23		
22	d	Iphydius	Libra	12	11	24		
23	e	Palm-sunday		26	12	25		
24	f	Quirion Fast	Scorp.	9	13	26		
25	g	Annun. Mary		22	14	27	Fine springing weather about this time but very windy.	
26	a	Castulus	Sagit.	4	15	28		
27	b	Martian		17	16	29		
28	c	Dorothy vir.		29	17	30		
29	d	Eustach. fast	Capr.	10	18	31		
30	e	Easter day		22	19	32		
31	f	Balbina	Aquar.	4	20	33		

The Sun now riding on the Ram doth bring
The moſt delightfull and the welcome ſpring,
And th' earth (made bare by winter) Cloaths in green,
Which if this moneth prove mild will ſoon be ſeen.

March 1673.

	Sunriſing.		Sunſetting.	
1	6	18	5	42
2	6	16	5	44
3	6	14	5	46
4	6	12	5	48
5	6	10	5	50
6	6	8	5	52
7	6	6	5	54
8	6	4	5	56
9	6	2	5	58
10	6	0	6	0
11	5	58	6	2
12	5	56	6	4
13	5	54	6	6
14	5	52	6	8
15	5	50	6	10
16	5	48	6	12
17	5	46	6	14
18	5	44	6	16
19	5	42	6	18
20	5	40	6	20
21	5	38	6	22
22	5	36	6	24
23	5	34	6	26
24	5	32	6	28
25	5	30	6	30
26	5	28	6	32
27	5	26	6	34
28	5	24	6	36
29	5	22	6	38
30	5	20	6	40
31	5	18	6	42

April hath xxx days.

New moon the 7 day, 11 min. past 1 in the morning
First quarter the 13 day, 15 min. past 9 at night
Full moon the 20 day, 12 min. past midnight
Last quarter the 28 day, 2 min. past midnight

1	g	Theodorus	Aqua.	16	21	34	Stormy windy
2	a	Mary Egypt		28	22	35	and unconstant
3	b	Richard bish.	Pisces	10	23	36	weather a great
4	c	Ambrose bis.		23	24	36	part of this
5	d	Vincent	Aries	6	25	35	moneth.
6	e	1 aft. Easter		20	26	34	
7	f	Celestin	Taur.	3	27	33	
8	g	Dionysius		17	28	32	
9	a	Perpet. bish.	Gem.	1	29	31	
10	b	Sun in Taur.		16	0 ♌	30	Warm and plea-
11	c	Leo Pap.	Canc.	0	1	29	sant about this
12	d	Julius		14	2	28	time bringing
13	e	2 sun. aft. East.		28	3	27	forward the
14	f	Tiburtius	Leo	12	4	26	spring.
15	g	Olympia		26	5	25	
16	a	Term begins	Virg.	10	6	24	
17	b	Anicete		24	7	23	
18	c	Valerian	Libra	7	8	22	
19	d	Alphege		21	9	21	
20	e	3 after Easter	Scorp.	4	10	20	
21	f	Tres Pasch.		17	11	19	Stormy and it
22	g	Mother virg.	Sagit.	0	12	18	may be thunder
23	a	St GEORGE		12	13	17	and lightning in
24	b	Albertus		25	14	16	some places.
25	c	Mark Evang.	Capr.	7	15	15	
26	d	Cletus bish.		18	16	14	
27	e	4 aft. Easter	Aquar.	0	17	12	
28	f	Vitalis		12	18	11	
29	g	Sibylla		24	19	10	
30	a	Erkenw. fast	Pisc.	6	20	9	

Now pleasant *April*, with his springing showres,
Will soon begin, to Crown the earth with flowers,
With which we may both please our smell and sight,
Of all the year, the spring cause most delight.

April 1673.

Sun-rising.		Sun-setting.	
15	16	6	44
25	14	6	46
35	12	6	48
45	10	6	50
55	8	6	52
65	6	6	54
75	4	6	56
85	2	6	58
95	0	7	0
104	58	7	2
114	56	7	4
124	54	7	6
134	52	7	8
144	50	7	10
154	48	7	12
164	46	7	14
174	44	7	16
184	42	7	18
194	40	7	20
204	39	7	21
214	37	7	23
224	35	7	25
234	33	7	27
244	32	7	28
254	30	7	30
264	28	7	32
274	27	7	33
284	25	7	35
294	23	7	37
304	22	7	38

New moon the 6 day, 12 min. past 11 before noon.
First quarter the 13 day, 12 min. past 2 in the morning
Full moon the 20 day, 36 min. past 1 after noon
Last quarter the 28 day, 27 min. past 10 at night

1	b	Phil. & James	Piſces	18	21	8		
2	c	Athanaſius	Aries	1	22	7	Stormy and	
3	d	Invent. cruc.		14	23	6	like to thunder	
4	e	Rogation ſun		28	24	5	the former part	
5	f	Gothard	Taur.	12	25	4	of this	
6	g	Joh. Port. Lat.		26	26	3	moneth.	
7	a	John of Bev	Gem.	11	27	2		
8	b	Aſcenſion da.		25	28	1		
9	c	Craft Aſcen.	Canc.	10	29	0		
10	d	Sun in Gem.		25	0 ♓	0		
11	e	6 aft. Eaſter	Leo	9	1	0		
12	f	Term ends		23	1	58		
13	g	Servatius	Virgo	7	2	56		
14	a	Fortunatus		21	3	54		
15	b	Sophia	Libra	4	4	53	A very warm	
16	c	Peregrine		17	5	51	ſeaſon with	
17	d	Dodecas Faſt	Scorp.	0	6	50	high winds	
18	e	Whitſunday		13	7	48	following.	
19	f	Perperdine		26	8	46		
20	g	Bandelius	Sagit.	8	9	43		
21	a	Ember week		21	10	41		
22	b	Helen	Capr.	3	11	39		
23	c	Deſiderius		15	12	36	Somewhat	
24	d	Eſther		27	13	34	cooler about	
25	e	Ordinat. ſun.	Aquar.	8	14	31	this time with	
26	f	Auguſtine		20	15	29	ſome ſhowers	
27	g	Bede	Piſc.	2	16	26	towards the	
28	a	German		14	17	24	moneths end.	
29	b	K. Char. Nat.		27	18	22		
30	c	Term begins	Aries	9	19	19		
31	d	Petronella		22	20	17		

Not many days after this moneth begins,
The Sun (who never rests) t' enter the Twins,
His heat (from what it was of late) is doubled,
And we with heat, as well as cold are troubled.

May 1673.

	Sun rising.		Sun setting.	
1	4	21	7	39
2	4	20	7	40
3	4	19	7	41
4	4	18	7	42
5	4	16	7	44
6	4	15	7	45
7	4	13	7	47
8	4	12	7	48
9	4	11	7	49
10	4	9	7	51
11	4	8	7	52
12	4	6	7	54
13	4	5	7	55
14	4	3	7	56
15	4	2	7	58
16	4	1	7	59
17	3	59	8	1
18	3	58	8	2
19	3	57	8	3
20	3	56	8	4
21	3	55	8	5
22	3	54	8	6
23	3	53	8	7
24	3	52	8	8
25	3	51	8	9
26	3	50	8	10
27	3	49	8	11
28	3	48	8	12
29	3	47	8	13
30	3	46	8	14
31	3	46	8	14

June hath xxx days.

New Moon the 4 day, 11 min. past 7 in the afternoon
First quarter the 11 day, 6 min. past 9 in the morning
Full Moon the 19 day, 58 min. past 3 in the morning
Last quarter the 27 day, 21 min. past 6 in the morning

1	G	1 sun. aft. Trin	Taur.	6	21	15	Very warm
2	f	Octab. Trin.		20	22	12	and good
3	g	Erasmus	Gem.	4	23	10	weather with
4	a	Petroctus		19	24	8	fresh winds
5	b	Boniface	Canc.	4	25	6	and some
6	c	Artemius		19	26	4	moisture fol-
7	d	Paul bis.	Leo	4	27	2	lowing.
8	e	2 after Trin.		19	28	0	
9	f	Quind. Trin.	Virg.	3	28	58	
10	g	Onophius		17	29	56	Hot and
11	a	Barn. Apost.	☉ in ♋		0♋	54	variable
12	b	Blandina	Libra	14	1	52	weather, as
13	c	Tyril		27	2	50	winds,
14	d	Basil bish.	Scorp.	10	3	47	clouds, storms
15	e	3 after Trin.		23	4	45	and thunder
16	f	Rowland	Sagit.	5	5	43	in some
17	g	Botolph		17	6	40	places about
18	a	Term ends		29	7	38	this time.
19	b	Gervase	Capr.	11	8	36	
20	c	Sylverius		23	9	33	
21	d	Walbury	Aquar.	5	10	31	
22	e	4 after Trin.		17	11	28	
23	f	Ethel. Fast		29	12	26	
24	g	John Baptist	Pisces	11	13	23	
25	a	Loy bish.		23	14	21	Cool and
26	b	John & Paul	Aries	5	15	19	cloudy to-
27	c	7 Sleepers		18	16	16	wards the
28	d	Leo Fast	Taur.	1	17	14	end with
29	e	Peter Apost.		14	18	12	wind and
30	f	Com. of Paul		28	19	10	rain.

The Sun now having chear'd his northern friends;
With speed again unto the south he tends,
Impartially his influence he lets fall,
Which should us teach for to do good to all.

June 1673.

	Sun-rising.		Sun-setting.	
1	3	46	8	15
2	3	45	8	15
3	3	45	8	15
4	3	45	8	16
5	3	44	8	16
6	3	44	8	16
7	3	44	8	16
8	3	43	8	17
9	3	43	8	17
10	3	43	8	17
11	3	43	8	17
12	3	43	8	17
13	3	43	8	17
14	3	43	8	17
15	3	43	8	17
16	3	44	8	16
17	3	44	8	16
18	3	44	8	16
19	3	45	8	15
20	3	45	8	15
21	3	45	8	15
22	3	46	8	14
23	3	46	8	14
24	3	46	8	14
25	3	47	8	13
26	3	47	8	13
27	3	48	8	12
28	3	49	8	11
29	3	50	8	10
30	3	51	8	9

July hath xxxi days.

New moon the 4 day, 10 min. past 2 in the morning
First quarter the 10 day, 39 min. past 6 after noon
Full moon the 18 day, at 7 at night
Last quarter the 26 day, 43 min. past 3 after noon

1	g	Theobald	Gem.	12	20	8	
2	a	Visitat. Mary		27	21	6	
3	b	Cornelius	Canc.	12	22	4	
4	c	Martin		28	23	2	
5	d	Anselme	Leo	13	24	0	
6	e	6 aft. Trin.		28	24	58	Very hot about this time and high winds following soon after.
7	f	Becket	Virg.	12	25	56	
8	g	Chilian		27	26	54	
9	a	Cyril. bish.	Libra	11	27	52	
10	b	7 Bzethzen		24	28	50	
11	c	Pius	Scorp.	7	29	48	
12	d	Henricus		20	0 ♌	46	
13	e	7 after Trin.	Sagit.	2	1	44	
14	f	Bonavent		14	2	41	
15	g	S. Swithin		26	3	39	
16	a	Osmund	Capr.	8	4	37	
17	b	Alexius		20	5	34	
18	c	Rufus.	Aquar.	2	6	32	
19	d	Dog days be.		14	7	29	Good weather for the hay-makers about this time, but I fear some storms with thunder the later part of the moneth.
20	e	8 after Trin.		26	8	27	
21	f	Arbogastus	Pisces	8	9	25	
22	g	Mary Magd.		20	10	22	
23	a	Apolinaris	Aries	2	11	20	
24	b	Christian fast		14	12	18	
25	c	James Apost.		27	13	15	
26	d	S. Anne	Taur.	10	14	13	
27	e	9 aft. Trin.		23	15	10	
28	f	Panthaleon	Gem.	7	16	8	
29	g	Beatrix		21	17	6	
30	a	Abdon	Canc.	6	18	3	
31	b	German		21	19	1	

The sun in's progress now returning (lack
A steed;) he mounts upon the Lyons back,
Whose raging heat ripens the fruits o'th' earth,
Without the which we should have little mirth.

July 1673.

	Sun-rising.		Sun-setting.	
1	3	53	8	7
2	3	54	8	6
3	3	55	8	5
4	3	56	8	4
5	3	57	8	3
6	3	58	8	2
7	3	59	8	1
8	4	0	8	0
9	4	1	7	59
10	4	3	7	57
11	4	4	7	56
12	4	5	7	55
13	4	7	7	53
14	4	8	7	52
15	4	10	7	50
16	4	11	7	49
17	4	13	7	47
18	4	15	7	45
19	4	17	7	43
20	4	19	7	41
21	4	21	7	39
22	4	22	7	38
23	4	24	7	36
24	4	26	7	34
25	4	27	7	33
26	4	29	7	31
27	4	30	7	30
28	4	32	7	28
29	4	33	7	27
30	4	35	7	25
31	4	37	7	23

Auguſt hath xxxi days.

New moon the 2 day, 45 min. paſt 8 in the morning
Firſt quarter the 9 day, 45 min. paſt 7 in the morning
Full moon the 17 day, 22 min. paſt 10 before noon
Laſt quarter the 25 day, 2 min. paſt 3 in the morning
New moon the 31 day, 18 min. paſt 5 at night

1	c	Lammas day	Leo	6	19	58	A probability of good weather for harveſt, the former part of this moneth.
2	d	Stephanus		21	20	56	
3	e	10 after Trin.	Virgo	6	21	53	
4	f	Ariſtarchus		21	22	51	
5	g	Oſwald	Libra	6	23	48	
6	a	Transfigurat.		20	24	46	
7	b	Donatus	Scorp.	☽	25	43	
8	c	Cyriacus		16	26	41	
9	d	Romanus		29	27	38	
10	e	11 after Trin.	Sagit.	11	28	36	
11	f	Tyburtus		23	29	33	
12	g	Clare	Capr.	5	♑ 0	31	
13	a	Sun in Virgo		17	1	29	
14	b	Euſebius		29	2	27	Not like to alter much till towards the end.
15	c	Aſſum. of M.	Aquar.	11	3	25	
16	d	Roch mart.		23	4	22	
17	e	12 after Trin.	Piſces	5	5	20	
18	f	Helena		17	6	18	
19	g	Sebaldus		29	7	15	
20	a	Lenes biſh.	Aries	12	8	13	
21	b	Bernard		24	9	11	
22	c	Symphyon.	Taur.	7	10	9	
23	d	Zacheus Faſt		20	11	6	
24	e	Barthol. Ap.	Gem.	3	12	4	
25	f	Lewes		17	13	2	
26	g	Ireneus.	Canc.	1	14	0	Very warm and thunderlike the latter part of this moneth with high winds.
27	a	Dog da. end		15	14	58	
28	b	Auguſtine	Leo	0	15	55	
29	c	Decol. J. B.		15	16	53	
30	d	Felix prieſt	Virgo	0	17	51	
31	e	14 after Trin.		15	18	48	

The sun hath now produc'd his master piece,
He's come from *Colchis* with the Golden fleece;
Good husbands now make haste, and home it bring,
That afterwards you may have cause to sing.

Auguſt 1673.

	Sun rising.		Sun setting.	
1	4	39	7	21
2	4	41	7	19
3	4	43	7	17
4	4	44	7	16
5	4	46	7	14
6	4	48	7	12
7	4	49	7	11
8	4	51	7	9
9	4	53	7	7
10	4	55	7	5
11	4	57	7	3
12	4	59	7	1
13	5	0	7	0
14	5	2	6	58
15	5	4	6	56
16	5	6	6	54
17	5	8	6	52
18	5	10	6	50
19	5	12	6	48
20	5	14	6	46
21	5	16	6	44
22	5	17	6	43
23	5	19	6	41
24	5	21	6	39
25	5	23	6	37
26	5	25	6	35
27	5	27	6	33
28	5	29	6	31
29	5	30	6	30
30	5	32	6	28
31	5	34	6	26

September hath xxx days.

First quarter the 7 day, 18 min. past 11 at night
Full moon the 16 day, 43 min. past 1 in the morn.
Last quarter the 23 day, 23 min. past 10 in the morn.
New moon the 30 day, 16 min. past 3 in the morn.

1	f	Giles	Virgo	29	19	46	
2	g	Veronica	Libra	14	20	43	
3	a	Serapia		28	21	41	Warm for the season of the year but it will soon abate.
4	b	Theodot.	Scorp.	11	22	39	
5	c	Bertine		25	23	36	
6	d	Magnus	Sagit.	7	24	34	
7	e	15 aft. Trin.		20	25	31	
8	f	Nat. of Mary	Capr.	2	26	29	
9	g	Gozgon		14	27	26	
10	a	Hilvius		26	28	24	
11	b	Maurice	Aquar.	7	2	21	
12	c	Martinian		19	0♓	19	
13	d	Sun in Libra	Pisces	1	1	17	
14	e	16 aft. Trin.		13	2	15	
15	f	Nichomedes		26	3	13	
16	g	Euphemia	Aries	8	4	11	
17	a	Ember week		21	5	10	
18	b	Methodius	Taur.	4	6	8	Cool and cloudy and so like to continue most part of this moneth with cold rain or misty weather and high winds.
19	c	Januarius		17	7	7	
20	d	Fausta. Fast	Gem.	1	8	5	
21	e	Mat Ap. Ord.		14	9	4	
22	f	Mauritius		28	10	2	
23	g	Esdras	Cane.	11	11	1	
24	a	Samuel		25	12	0	
25	b	Cleophas	Leo	10	12	58	
26	c	Cyprian		24	13	57	
27	d	Cosm. Dam.	Virgo	9	14	55	
28	e	18 aft. Trin.		23	15	54	
29	f	Michael Arc.	Libra	8	16	53	
30	g	S. Hierom		22	17	52	

No sooner are the fruits o'th' earth brought home,
But Sol doth to the equal balance come,
Thence teaching us, to use just weights and measure,
'Tis one good way to gain eternal treasure.

September 1673.

	Sun rising.		Sun setting.	
1	5	36	6	24
2	5	38	6	22
3	5	40	6	20
4	5	42	6	18
5	5	44	6	16
6	5	46	6	14
7	5	48	6	12
8	5	50	6	10
9	5	52	6	8
10	5	54	6	6
11	5	56	6	4
12	5	58	6	2
13	6	0	6	0
14	6	2	5	58
15	6	4	5	56
16	6	6	5	54
17	6	8	5	52
18	6	11	5	49
19	6	13	5	47
20	6	15	5	45
21	6	17	5	43
22	6	20	5	40
23	6	22	5	38
24	6	24	5	36
25	6	26	5	34
26	6	28	5	32
27	6	30	5	30
28	6	32	5	28
29	6	34	5	26
30	6	36	5	24

October hath xxxi days.

First quarter the 7 day, 52 min. past 5 at night
Full moon the 15 day, 26 min. past 4 afternoon
Last quarter the 21 day, 42 min. past 4 afternoon
New moon the 29 day, at 4 after noon

1	a	Remigius	] Scorp.	6	18	51	
2	b	Leodegar		19	19	50	Some rain
3	c	Candidus	Sagit.	3	20	49	with high
4	d	Francis		15	21	49	winds about
5	e	19 after Trin.		28	22	48	the begin-
6	f	S. Faith	Capr.	10	23	48	ning of the
7	g	Marcellus		22	24	48	moneth.
8	a	Pelagia	Aquar.	4	25	47	
9	b	Dionysius		15	26	47	
10	c	Gereon		27	27	47	
11	d	Nicasius	Pisces	9	28	47	
12	e	20 after Trin.		21	29	47	Good and
13	f	Sun in Scorp.	Aries	4	om	47	pleasant wea-
14	g	Calixtus		17	1	47	ther about
15	a	Hedewige	Taur.	0	2	47	this time, the
16	b	Gallus		13	3	47	season of the
17	c	Florentius		27	4	47	year consider-
18	d	Luke Evang.	Gem.	10	5	47	ed.
19	e	21 after Trin.		24	6	48	
20	f	Tres Mich.	Canc.	8	7	48	
21	g	Ursula		22	8	48	
22	a	Cordula	Leo	6	9	49	
23	b	Term begin		20	10	49	
24	c	Salome	Virg.	5	11	49	
25	d	Crispine		19	12	50	Not very cold
26	e	22 aft. Trin.	Libra	3	13	50	for the season
27	f	Mens. M. fast		17	14	51	of the year,
28	g	Simon & Jud.	Scorp.	1	15	52	yet dull and
29	a	Narcissus		14	16	53	cloudy.
30	b	Theonestus		27	17	54	
31	c	Quintin. Fast	Sagit.	10	18	55	

The Scorpion now brings winter at his tail,
And mists, and clouds, over the sun prevail,
Cold blasts uncloaths both trees, and other plants,
And leave them naked, when most heat they want.

October 1673.

	Sun rising		Sun setting	
1	6	39	5	21
2	6	41	5	19
3	6	43		17
4	6	45	5	15
5	6	47	5	13
6	6	49	5	11
7	6	50	5	10
8	6	52	5	8
9	6	54	5	6
10	6	56	5	4
11	6	58	5	2
12	7	0	5	0
13	7	2	4	58
14	7	4	4	56
15	7	6	4	54
16	7	8	4	52
17	7	10	4	50
18	7	12	4	48
19	7	14	4	46
20	7	15	4	45
21	7	17	4	43
22	7	19	4	41
23	7	20	4	40
24	7	22	4	38
25	7	24	4	36
26	7	25	4	35
27	7	27	4	33
28	7	29	4	31
29	7	30	4	30
30	7	32	4	28
31	7	33	4	27

November hath xxx days.

First quarter the 6 day, at 2 after noon.
Full moon the 14 day, 7 min. past 6 in the morning
Last quarter the 20 day, 48 min. past 11 at night
New moon the 28 day, 38 min. past 7 in the morning

1	b	All Saints	Sagit.	23	19	56	Pretty warm
2	c	23 after Trin.	Capr.	6	20	57	ſtill, but high
3	d	Craſt. anim.		18	21	58	winds with
4	e	Modeſtinus	Aquar.	0	22	59	ſleet or rain
5	f	Powder trea.		12	24	0	will ſoon fol-
6	g	Leonard		23	25	1	low: and
7	a	willibrod	Piſces	5	26	2	cold variable
8	b	Clauding		17	27	2	weather be-
9	c	24 after Trin.		29	28	3	gins now to
10	d	Eraſtus	Aries	12	29	4	come on a-
11	e	Martin bish.		25	0	5	pace.
12	f	Sun in Sagit	Taur.	8	1	5	
13	g	Craſt. Mart.		23	2	6	
14	a	Erkenwald	Gem.	6	3	7	
15	b	Leopold		20	4	8	
16	c	25 aft. Trin.	Canc.	4	5	9	
17	d	Amanus		19	6	9	
18	e	Octab. Mart.	Leo	3	7	10	
19	f	Elizabeth		17	8	11	
20	g	Edmund	Virg.	1	9	12	
21	a	Oblat. Mary		15	10	13	Pleaſant but
22	b	Cecilia virg.		29	11	14	cold, inclining
23	c	26 aft. Trin.	Libra	13	12	15	to froſt.
24	d	Chryſolog		27	13	16	
25	e	Quind. Mart.	Scorp.	10	13	17	
26	f	Conradus		23	14	19	
27	g	Agricola	Sagit.	6	15	20	
28	a	Term ends		19	16	21	
29	b	Saturn. Faſt	Capr.	1	17	22	Cloudy and
30	c	Andrew Ap.	Adv. ſun.		18	24	cold moiſt
							weather,

The half-horſe-Archer, with his winter darts,
Of tender plants, now kills the upper parts,
And they in earth, as dead, do now remain,
'Till in the ſpring, they freſhly riſe again.

November 1673.

	Sun riſing.		Sun ſetting.	
1	7	35	4	25
2	7	37	4	23
3	7	39	4	21
4	7	41	4	19
5	7	43	4	17
6	7	45	4	15
7	7	47	4	13
8	7	49	4	11
9	7	51	4	9
10	7	52	4	8
11	7	54	4	6
12	7	55	4	5
13	7	57	4	3
14	7	58	4	2
15	7	59	4	1
16	8	0	4	0
17	8	1	3	59
18	8	2	3	58
19	8	3	3	57
20	8	4	3	56
21	8	5	3	55
22	8	6	3	54
23	8	7	3	53
24	8	8	3	52
25	8	9	3	51
26	8	10	3	50
27	8	11	3	49
28	8	12	3	48
29	8	12	3	48
30	8	13	3	47

December hath xxxi days.

First quarter the 6 day, 34 min. past 10 before noon
Full moon the 13 day, 10 min. past 6 at night
Last quarter the 20 day at 9 in the morning
New moon the 27 day, 18 min. past 9 at night

1	f	Eligius bis.	Capr.	26	19	26	Cloudy obscure weather about this time.
2	g	Candida	Aquar.	8	20	27	
3	a	Lucius		20	21	29	
4	b	Barbara	Pisces	1	22	30	
5	c	Sabina		13	23	32	
6	d	Nicholaus		25	24	34	
7	e	2 Sun. in Adv.	Aries	7	25	35	
8	f	Conce. of M.		20	26	37	
9	g	Joachim	Taur.	3	27	38	
10	a	Melchia		16	28	40	
11	b	Sun in Capr.	Gem.	0	29	♑41	
12	c	Damasus		14	0	43	Pleasanter now inclining to frost.
13	d	Lucy virg.		28	1	44	
14	e	3 sund. in Ad.	Canc.	13	2	46	
15	f	Valerian		28	3	47	
16	g	O Sapientia	Leo	13	4	49	
17	a	Ember week		28	5	50	
18	b	Sebastian	Virg.	12	6	52	
19	c	Nemesius		26	7	53	Cold cloudy weather with snow or cold rain, and variable most of this moneth.
20	d	Julius. fast	Libra	10	8	51	
21	e	Tho. Ap. Ord		24	9	53	
22	f	Ischirion	Scorp.	7	10	54	
23	g	Victor		20	11	56	
24	a	Ad. & E. Fast	Sagit.	3	12	58	
25	b	Christ born		15	13	59	
26	c	S. Stephen		28	15	0	
27	d	S. John Evan.	Capr.	10	16	2	
28	e	Innocents d.		22	17	4	
29	f	Crescens	Aquar.	4	18	7	
30	g	David		16	19	10	
31	a	Sylvester		28	20	12	

This moneth was graced by our Saviours birth
A greater gift was ne're bestow'd on earth,
For which let us, Gods holy name adore,
And charitable be, unto the poor.

December 1673.

	Sun rising		Sun setting	
1	8	14	3	46
2	8	14	3	46
3	8	15	3	45
4	8	15	3	45
5	8	15	3	45
6	8	16	3	44
7	8	16	3	44
8	8	16	3	44
9	8	17	3	4
10	8	17	3	4
11	8	17	3	43
12	8	17	3	43
13	8	17	3	43
14	8	17	3	43
15	8	17	3	43
16	8	16	3	43
17	8	16	3	43
18	8	16	3	44
19	8	15	3	45
20	8	15	3	45
21	8	15	3	45
22	8	14	3	46
23	8	14	3	46
24	8	13	3	47
25	8	12	3	48
26	8	11	3	49
27	8	10	3	50
28	8	9	3	51
29	8	8	3	52
30	8	7	3	53
31	8	6	3	54

The Regal Table in an exact Method.

The Year, Moneth, and Day, (accounting the Year to begin *Jan.* 1.) whereon every K. and Q. of *Eng.* since the Conq. began their Reign.			The number of Years, Monthes, & Days, that every K. & Q. reigned, 28 days to a moneth.			The numb. of y. expired in this y. since they began to reign: as also since they ended.		
K. W. Conq.	1066	Octob. 14	20 y	11 m	22 d	1607		
W. Rufus	1087	Sept. 9	12 y	11 m	18 d	586	W. Conq.	
Henry 1	1100	Auguſt 2	35 y	4 m	11 d	573	W. Rufus	
Stephen	1135	Decem. 1	18 y	11 m	18 d	538	Henry	1
Henry 2	1154	Octob. 25	34 y	9 m	2 d	519	Stephen	
Richard 1	1189	July 6	9 y	9 m	0 d	484	Henry	2
John	1199	April 6	17 y	7 m	0 d	474	Richard	1
Henry 3	1216	Octob. 19	56 y	1 m	0 d	457	John	
Edward 1	1272	Nov. 16	34 y	8 m	6 d	401	Henry	3
Edward 2	1307	July 7	19 y	7 m	5 d	366	Edward	1
Edward 3	1327	Jan. 25	50 y	5 m	7 d	347	Edward	2
Richard 2	1377	June 21	22 y	3 m	14 d	296	Edward	3
Henry 4	1399	Sept. 29	13 y	6 m	3 d	274	Richard	2
Henry 5	1413	Mar. 20	9 y	5 m	24 d	260	Henry	4
Henry 6	1422	Aug. 31	38 y	6 m	16 d	251	Henry	5
Edward 4	1461	March 4	22 y	1 m	8 d	213	Henry	6
Edward 5	1483	April 9	0 y	2 m	18 d	190	Edward	4
Richard 3	1483	June 22	2 y	2 m	5 d	190	Edward	5
Henry 7	1485	Aug. 22	23 y	10 m	24 d	188	Richard	3
Henry 8	1509	April 22	37 y	10 m	2 d	164	Henry	7
Edward 6	1547	Jan. 28	6 y	5 m	19 d	127	Henry	8
Q. Mary	1553	July 6	5 y	4 m	22 d	120	Edward	6
Q. Elizab.	1558	Nov. 17	44 y	4 m	15 d	115	Q. Mary	
K. James	1603	Mar. 24	22 y	0 m	3 d	71	Q. Elizabeth	
Charles 1	1625	Mar. 27	22 y	10 m	3 d	48	K. James	
Charles 2	1649	Jan. 30	Long live the King			24	Charles	1

The uſe of this Table in Example.

King *Henry* 8 began his reign in the year of *Chriſt* 1509. *April* 22. He reigned 37 years 10 moneths and 2 days. Its ſince he began his reign 164 years compleat the 22 of *April* in this year 1673. Now to know the time ſince the end of his Reign, before his name ſtanding on the right hand, you ſhall there find 127 years ſince he died, *January* 28. And ſo of the reſt.

Dove 1673.

The latter part of this ALMANACK

For the year of our Lord God 1673:

Being the first after the Leap-year.

Wherein is contained a description of the year, moneths, and days, with Tables and rules to find the Planetary hours, with other Tables, and observations, suitable to a work of this kind.

CAMBRIDGE,
Printed by *John Hayes*, Printer to the University, 1673.

Of the Year.

THe year is that common and ordinary part of time, whereby the beginning, progreſs, duration and intervals of all manner of actions in the world are accounted. It is two-fold, Solar and Lunar, the Solar year is that ſpace of time wherein the ſun departing from ſome certain point of the Firmament, returneth to the ſame again.

Again, this Solar year is of two kinds, natural, and ſydereal. The natural year contains the ſpace of time, in which the Sun is going from ſome certain point of the Zodiack, to his return to the ſame point again, which ſpace of time contains 365 days, 5 hours, 49 minutes, and 4 ſeconds.

The ſydereal year is that ſpace of time, in which the ſun returneth to the ſame fixed ſtar, from whence he laſt departed in the former year.

Again the Lunar year is of two kinds, the one called in Latine *Annus Communis*, which contains 12 Synodical Lunations, or 354 days, the other called *Annus Emboliſmalis* is a ſpace containing 13 moons.

The Political or civil years, are thoſe wherein people in all places uſe to diſtinguiſh their times and ſeaſons; which year is threefold, as having reſpect to the Sun or Moon, or to the motion of the Sun and Moon joyntly.

The Egyptians making the Periodical motion of the Sun the meaſure of time, do conſtitute their year to be 365 days exactly; every year having in it 12 moneths, and every moneth 30 days: and to make up the former number of 365 days, they add 5 days at the end of the year.

But the Roman year is greater then the Egyptian, or ancient Perſian; for according to the Conſtitution of *Julius Cæſar*, they make it 365 days and 6 hours, which

6 hours every fourth year makes the Leap-year of 366 days; and this year is retained, and generally used by the Syrians, Syrogrecians, Ethiopians, Moscovites and Britains.

The Arabians, Turks and Indians, have respect to the moon for their year of 12 Synodical Lunations, but the Hebrews have respect to both Luminaries; and although the Atticks and Greeks chiefly describe and limit their year by the motion of the moon, making it to consist of 12 Lunar moneths; yet perceiving the Revolution of the sun not to agree with the Lunar year, they intercalate sometime a whole moneth the second or third year.

The Syderial year is greater in quantity then the tropical year; for as that contains the space of time that the sun is going from one point of the Zodiack, and continues his return to the same again; so the syderial year is the return of the Sun to the same fixed star, with whom he was joyned in the year last past: which containeth 365 days, 6 hours, 9 min. 46 seconds.

The Egyptians begin their year from the Meridian of the first day of the moneth though, which (according to their Kalendar account) is affixed neither to the Equinoxes nor Solstices, but wandreth throughout all the moneths of the year, which ariseth through the omission of the odd 6 hours computed in our Kalendar, whereof cometh the Bissextile or Leap-year.

The Romans, from the ordination of *Romulus*, did at first place the beginning of the year about the Vernal Equinox in the moneth of *March*; but afterwards they began it at the Solstice, according to the constitution and appointment of *Numa* approved of by *Julius Cæsar*.

But forasmuch as the Hyberual Solstice in the reformed Kalendar differs 9 days, and in the old Kalendar 19 days from the first day of the first moneth *January*; therefore the Roman year, as it is this day established, agreeth not with its first ordination.

The

The Moscovites begin their year at the beginning of *September*, but in the names of their Moneths and Festivals, they differ not much from the *Julian* account.

The Syrians, and Syrogrecians account the beginning of their year from the first of *October*, according to the *Julian* account which is after the Autumnal Equinox.

The Coptites, Ethiopians, and Alexandrians, begin their year before the Autumnal Equinox, upon the 4 Kalends of *September*, which is on the 29 of *August*, according to the old account in the Irreformed Kalender.

The Atticks begin their year at the summer Solstice, or from the new moon next to the same.

The Hebrews have a double beginning of their year, the Ecclesiastical year they begin from the new moon next to the Vernal Equinox; and the civil year from the new moon next to the Autumnal Equinox: therefore in things Politick the Jews year is deduced from the moneth *Tisri*; but in Ecclesiastical things from the moneth *Nisan*.

Of Moneths and Days.

THe moneths by which we measure the year are two-fold, Astronomical and Political, the Astronomical moothes (which are called the natural) have relation to the two Luminaries; and they are either Solar or Lunar. The Solar moneths are 12 in number, which principally respect the 12 signs of the Zodiack. The Lunar moneths, which being referred to the motion of the moon are threefold; Periodical, Synodical, and of Illumination, or Apparition. The Periodical moneth is

that interval of time, in which the moon returneth to the same place of the Zodiack, from whence she departed; the Synodical is the space of time contained between two conjunctions of the Sun and Moon; and the moneth of illumination contains the time from the first day of the moons appearing next after her change, to the last day of her being visible, before her next Change; which may be greater or lesser, according to her motion, declination, or right or oblique ascending and descending the Horizon. The moneths Politick, civil or usual, are those whereby all nations divide their year.

The Egyptian moneths are all alike, containing 30 days apiece, and to make up their year of 365 days, they add at the end of the year 5 days for Intercalation.

The Persians likewise account 30 days to every moneth like the Egyptians, onely in the common years they add 5 days, and in the Leap-year 6 days, which they call *Musteraka*.

The usual moneth is a number of days, as they are now placed in our Kalendar: but formerly *Romulus* the first king, and builder of *Rome*, divided the year into but 10 moneths, but his successour *Numa Pompilius* added two more, namely *January* and *February*. From whence the moneths took their names you have had an account formerly.

The natural day contains the time of one revolution of the sun about the earth, which comprehendeth both day and night; But the artificial day is the whole interval of time, from the suns rising to his setting; as the artificial night is the time that the sun is under the Horizon.

The Caldeans, and Hebrews begin their day at sunrising, and end it at his next rising. The Romans begin it at midnight, and end it the next midnight after. The Egyptians from noon to noon, which account Astronomers

mers follow, the Italians account it from sun-set to sun-set.

Now it is to be observed that under the Equinoctial (where the Poles of the world lye in the Horizon) their Artificial day is always 12 hours without variation, but those people who live either towards the North or South, have both longer and shorter days, according to the obliquity of their Sphere; insomuch that the Sun departing from the Equinoctial, and going towards the North, his Amplitude of rising and setting is increased Northwards; and the parallels of the Sun above the earth are greater in these our Northern regions, whereby the days are augmented, and the nights diminished, until the sun attain the summer Solstice, where the days are longest, and the nights shortest. But the sun returning from *Cancer* towards the Equinoctial, the days diminish, and the nights increase; and so passing by the Equinoctial towards the Tropick of *Capricorn*, the days are then greater to those that live in the southern parts, and less with us, until he attain the Tropick it self, when it is longest day and shortest night to all the southern inhabitants; and contrariwise, the shortest day and longest night to all that live on this side the Equinoctial; which is caused by the different arches and parallels of the sun above the earth.

The hours, aswell of the day-natural as artificial, are always equal, and every hour is the exact 24 part of the Natural day. But the unequal hours (otherwise called the Planetary hours) are such as divide the day at all times into 12 equal parts; so that when the day is 8 hours long, the unequal or planetary hour containeth but 40 minutes, if the day be 12 hours, the planetary hour is a just hour or 60 minutes, but if the day be 16 hours long, the planetary hour containeth one hour and 20 minutes by day, and onely 40 minutes by night.

I shall here add a Table by which you may find the length of the Planetary hours at all times.

A Table of the Planetary hours.

Length of day.	M. 0.	M 12	M 24	M 36	M. 48
	Ho. M.	Ho. M	Ho. M	Ho. M	Ho. M.
7	0 35	0 36	0 37	0 38	0 39
8	0 40	0 41	0 42	0 43	0 44
9	0 45	0 46	0 47	0 48	0 49
10	0 50	0 51	0 52	0 53	0 54
11	0 55	0 56	0 57	0 58	0 59
12	1 0	1 1	1 2	1 3	1 4
13	1 5	1 6	1 7	1 8	1 9
14	1 10	1 11	1 12	1 13	1 14
15	1 15	1 16	1 17	1 18	1 19
16	1 20	1 21	1 22	1 23	1 24

A Table to find what Planet Rules every hour of the day and night.

Rulers of the day	Sunday	Munday	Tuesday	Wedneſd	Thurſday	Friday	Saturday	Rulers of the night.
The Sun	1	12	9	0	10	0	11	Jupiter
Venus	2	0	10	0	11	1	12	Mars
Mercury	3	0	11	1	12	2	0	he Sun
The Moon	4	1	12	2	0	3	0	Venus
Saturn	5	2	0	3	0	4	1	Mercury
Jupiter	6	3	0	4	1	5	2	The Moon
Mars	7	4	1	5	2	6	3	Saturn
The Sun	8	5	2	6	3	7	4	Jupiter
Venus	9	6	3	7	4	8	5	Mars
Mercury	10	7	4	8	5	9	6	The Sun
The Moon	11	8	5	9	6	10	7	Venus
Saturn	12	9	6	10	7	11	8	Mercury
Jupiter	0	10	7	11	8	12	9	The Moon
Mars	0	11	8	12	9	0	10	Saturn

The Two foregoing Tables explained.

It hath been the opinion of ancient Aſtrologers, that the Planets have not onely a ſingular influence upon the earth, and earthly bodies, according to their various Aſpects, but alſo that the hours of the day and night have a particular participation of their effects. Therefore I have in the firſt table ſhown how to find the length of a planetary hour at any time, and in the ſecond what planet ruleth any hour of the day or night.

The

The uſe is this, when you would know the length of a planetary hour, and alſo what planet rules any hour of the day or night; Firſt find the length of the day in the former part of the Almanack, by the table of Sunriſing and ſetting, and with it enter the firſt of theſe tables, finding the length thereof in the firſt Column in hours, and the odd minutes if there be any at the head of the table, and in the common Angle you have the length of the planetary hour.

Then to find what planet rules any hour of the day or night, enter the ſecond table, finding the day at the head of the table, and the hour downward in the ſame Column, and on the left hand you ſhall find what planet rules the ſame hour by day, and on the right hand the planet that rules the ſaid hour by night, but to make it more plain I ſhall add one example.

I would know this preſent year, upon the 12 of *April* at 10 of the Clock before noon what planet rules. Firſt I find upon the 12 of *April* the ſun ſetteth 6 minutes after 7 of the Clock, which being doubled ſhews the length of the day 14 hours 12 minutes, and the ſun riſeth at 4 and 54 minutes, which doubled ſhews the length of the night 9 hours 48 min. having found the length of the day and night, with them I enter the firſt of theſe tables, finding the length of the day 14 hours in the firſt Column, and 12 minutes at the head, and at the Angle or meeting I find one hour 11 minutes the length of the planetary hour that day, and with the length of the night 9 hours at the ſide and 48 minutes at the head, I find in the Angle 49 minutes the length of a planetary hour that night.

Now the 12 of *April* being Saturday and the length of a planetary hour that day one hour and 11 minutes, the planet *Saturn* beginning to rule at ſun riſing, and ruling 71 minutes, *Jupiter* beginneth to rule 6 min. after 6

and

and ends 17 minutes after 7, at which time the sun begins and rules till 28 minutes after 8, then beginneth *Venus* and ruleth 39 minutes after 9, then *Mercury* beginneth to rule 40 minutes after 9 and continues till 50 minutes after 10, then begins the Moon and rules until noon, and thus you may proceed as far as you please both day and night, onely by knowing what planet ruleth the first hour of the day or night, which you may find by the second table.

By these rules I find that *Venus* ruleth at 10 of the Clock in the forenoon upon the 12 of *April* this year 1673, as you may see by the second table, (it being the 5 planetary hour of that day.) where you may likewise find what planet rules any hour of the day or night, if you can but divide the day into 12 equal parts.

A plain and easie Table shewing the true interest due upon any sum of money from five shillings to an hundred pounds for a year or under, after the rate of six pounds in the hundred.

	1 Mon.			3 Mon.			6 Mon.			9 Mon.			A year.		
	lb.	p.	q.	lb.	p.	q.	lb.	p.	q.	lb.	p.	q.	lb.	p.	q.
5	0	0	1	0	0	3	0	1	3	0	2	2	0	3	2
10	0	0	2	0	1	3	0	3	2	0	5	2	0	7	0
15	0	0	3	0	2	2	0	5	1	0	8	0	0	10	2
1	0	1	0	0	3	2	0	7	0	0	10	2	1	2	1
2	0	2	1	0	7	0	1	2	1	1	9	1	2	4	2
3	0	3	2	0	10	2	1	9	1	2	7	3	3	6	3
4	0	4	3	1	2	1	2	4	2	3	6	3	4	9	0
5	0	6	0	1	6	0	3	0	0	4	6	0	6	0	0
6	0	7	0	1	9	2	3	7	0	5	4	2	7	2	1
7	0	8	1	2	1	0	4	2	1	6	3	1	8	4	2
8	0	9	2	2	4	2	4	9	1	7	1	3	9	6	3
9	0	10	3	2	8	1	5	4	2	8	0	3	10	9	0
	p.	sh.	p.	p.	sh.	p.	p.	sh.	p.	p.	sh.	p.	p.	sh.	p.
10	0	1	0	0	3	0	0	6	0	0	9	0	0	12	0
20	0	2	0	0	6	0	0	12	0	0	18	0	1	4	0
30	0	3	0	0	9	0	0	18	0	1	7	0	1	16	0
40	0	4	0	0	12	0	1	4	0	1	16	0	2	8	0
50	0	5	0	0	15	0	1	10	0	2	5	0	3	0	0
60	0	6	0	0	18	0	1	16	0	2	14	0	3	12	0
70	0	7	0	1	1	0	2	2	0	3	3	0	4	4	0
80	0	8	0	1	4	0	2	8	0	3	12	0	4	16	0
90	0	9	0	1	7	0	2	14	0	4	1	0	5	8	0
100	0	10	0	1	10	0	3	0	0	4	10	0	6	0	0

Shill. Pounds. Tens of Pounds.

Find your principall in the first Column, and right against the same is the interest due for one, three, six, nine, or twelve moneths.

A Table shewing the length of the longest Artificial Day, in all places from the Equinoctial, to the Poles of the world.

Height of Pole	Longest d. Ho.	min.	Height Pole	Longest d. Ho.	min.	Height Pole	Longest da Day	H. mi.
0	12	0	47	15	42	68	42	1 16
6	12	20	48	15	52	69	54	16 25
12	12	42	49	16	0	70	64	13 46
16	12	58	50	16	10	71	74	0 0
20	13	12	51	16	20	72	82	6 36
24	13	30	52	16	30	73	89	4 58
27	13	42	53	16	42	74	95	17 0
30	13	56	54	16	54	75	104	1 4
32	14	6	55	17	8	76	110	7 27
34	14	16	56	17	22	77	116	14 22
35	14	22	57	17	36	78	122	17 6
36	14	28	58	17	52	79	127	9 55
37	14	34	59	18	10	80	134	4 58
38	14	38	60	18	30	81	139	31 36
39	14	44	61	18	54	82	145	6 43
40	14	52	62	19	20	83	152	2 6
41	14	58	63	19	50	84	156	3 3
42	15	4	64	20	24	85	161	5 23
43	15	12	65	21	10	86	166	11 22
44	15	18	66	22	18	87	171	21 47
45	15	26	66½	24	0	88	176	5 29
46	15	34	67	24 Days		89	181	21 58
						90	187	6 39

Find the height of the Pole in the first, third, or fifth Columns, and right against the same in the other Columns, you have the longest day under that latitude.

By the foregoing table you may see that those people which inhabit under the Equinoctial (who are distant from us, according to the old account about 3140 miles, but according to M. *Norwood* 3608 miles) have their longest day but 12 hours, they may also see both the Poles at the same time, and have two summers, and two winters in a year, for when the sun enters *Aries* or *Libra*, it passeth directly over their heads at noon; so that they cast no shadow either North or South but right down; their two winters are when the Sun is in *Cancer* or *Capricorn*, they are not so cold as our winter, but their summers are much hotter then our summer.

These inhabitants that dwell right under the Tropick of *Cancer* (who are distant from us according to the old account 1727 miles, but according to the later account 1962 miles) have but one summer, and one Winter in a year; for when the Sun is in *Cancer*, he passeth directly over their heads at noon, and maketh summer to them: but being in *Capricorn* he is fartheſt from them and causeth their winter, these people have alway their shadow pointing Northward; and their days and nights, are longer or shorter, according to the Suns declination.

Those people that live between the Tropick of *Cancer* and the Artick Circle, have likewise but one summer and one winter in a year, and do alway cast their shadow Northward at noon, and their days and nights, are longer or shorter, according to the Latitude of the place, as we at *Cambridge* (being distant from the Equinoctiall 52 degrees and 17 minutes, and from the Tropick of *Cancer* 28 degrees 47 minutes) have our longest day 16 hours 34 minutes

Those people that live under the Artick Circle in the Latitude of 66 degrees and a half, (who are distant from us Northward, according to the old account 853 miles,

miles, but according to M. *Norwood* 980 miles) have alſo one ſummer and one winter in a year: for they have the Tropick of *Cancer* alway appearing above the Horizon, and the Tropick of *Capricorn* always hid from them, inſomuch that their longeſt day when the Sun is in *Cancer*, is 24 hours, and their night but a moment, and their longeſt night when the Sun is in *Capricorn* is 24 hours, and their day but a moment; they likewiſe at noon caſt their ſhadow directly North.

Theſe which live between the Artick Circle and the Pole of the world, have like ſeaſons and ſhadows with thoſe that live under the Circle, but living nearer the Pole, and having the Sun at all times far from them toward the South, their winter is long and cold, and their days and nights as long as many of ours, according to their Latitude, as you may ſee by the foregoing table.

Laſtly, thoſe people (if there be any) which live under the Poles of the world, have but one day and one night in a year, for when the Sun is in the ſix Northern ſigns, *Aries*, *Taurus*, *Gemini*, *Cancer*, *Leo* and *Virgo*, it is continual day, and the Sun goes round about them, ſo that they caſt their ſhadows every way; but the Sun being in the ſix Southern ſigns, *Libra*, *Scorpio*, *Sagittarius*, *Capricorn*, *Aquarius* and *Piſces*, it is continual night half a year together, the Sun in all that time not aſcending their Horizon: and therefore is a place for cold and darkneſs, not likely to be inhabited.

Theſe inhabitants under the Pole, if there be any, are diſtant from us according to the old account (by allowing 60 miles to a degree) 2263 miles, but according to M. *Norwood* (who accounts 69 miles to a degree) 2603 miles: ſo that by his account the compaſs of the earth containeth 24840 miles, which according to the old account containeth but 21600 miles.

But

But here kind Reader, I must make an end,
And leave what I have writ unto thy view.
Whether thou lik'st it, or it discommend,
Until next year, I must bid thee adieu.

To end; I pray God Bless our Gracious King,
Our Queen, the Duke, and all the Royal Bloud.
Defend his Church, from every wicked thing,
Turn all our hearts, from evil unto good.

FINIS.

SWALLOW.

AN ALMANACK

for the Year of our LORD GOD,

1673.

Being the first after the Leap-year, and from the Worlds Creation 5677.

Calculated properly for the Meridian of the University and Town of CAMBRIDGE:

Where the Pole is elevated 52 degrees and 17 min. above the Horizon.

Omnia falce metit tempus.

CAMBRIDGE,
Printed by *John Hayes*, Printer to the University. 1673.